

type of particle instrumentally or visually separable by fluorescence, color and size, with sizes of the particles ranging from 0.01 μ m to 6 μ m, each antibody of the 2 to 6 antibodies is conjugated to different particles, and the ratio between the number of particles and the number of cells ranges from 0.5 : 1 to 20 : 1 in the cell suspension.

Claim 14. (Twice Amended) Kit to detect and phenotype target cells in cell suspensions by using particles coated with antibodies/ligands directed against antigenic determinants/receptors expressed on the target cells, wherein 2 to 6 antibodies or ligands each conjugated to a particle, wherein the particle is a fluorescent or dyed particle, are incubated under gentle rotation for 5-10 minutes to 2 hours with cell suspensions containing the target cells at 0°C to 25°C, followed by an enrichment procedure, and evaluation of the target cell rosettes microscopically and/or by suitable visualizing or imaging devices, wherein the kit comprises particles conjugated to antibodies/ligands, wherein one antibody is conjugated to one type of particle instrumentally or visually separable by fluorescence, color and size, with sizes of the particles ranging from 0.01 μ m to 6 μ m, each antibody of the 2 to 6 antibodies is conjugated to the same or different particles, and the ratio between the number of particles and the number of cells ranges from 0, 5 : 1 to 20 : 1 in the cell suspension.